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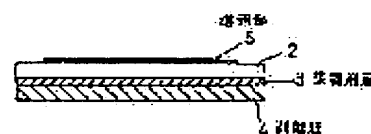
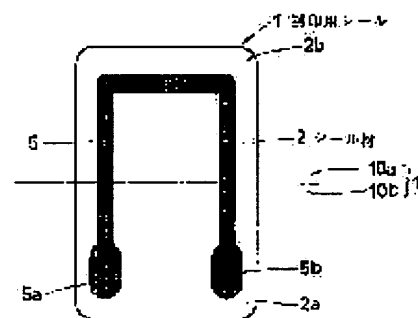
## (54) SEAL FOR SEALING

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a seal low in cost and capable of recognizing whether the seal has been electrically broken or not by setting the adhesive strength of the adhesive layer provided on the back surface of the seal member to the strength with which the member is broken when peeling off the member, and providing the conductive section which crosses plural opening and closing members on the surface of the seal member.

**SOLUTION:** An adhesive layer 3 is formed on the back surface side of a seal member 2. Then, the adhesive strength of the adhesive layer 3 is set to the strength with which a seal material 2 is broken when peeling off the member 2 stuck to a package 10.

An approximately U shaped conductive section 5 is provided in the vicinity of the peripheral of the surface of the material 2 so that the section 5 starts from a one end side 2a, goes through another end side 2b, returns to the side 2a and crosses two members consisting of an upper section member 10a and a lower section member 10b when the package 10 is sealed. One end of the section 5 is made into a common terminal 5a and the other end is made into an electric conduction detecting terminal 5b so that if a conduction is detected between the terminals 5a and 5b to judge that the seal 1 is not broken.



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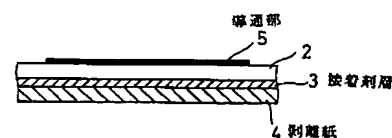
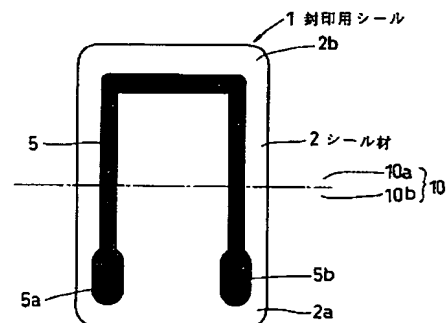
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(54)【発明の名称】 封印用シール

(57)【要約】

【課題】低コストにもかかわらず、電氣的に封印が破られたか否かを判定することができ、確実に不正を防止することができる封印用シールを提供すること。

【解決手段】シール材2の裏面には接着剤層3を設け、該接着剤層3の接着力はシール材4を剥離する際にシール材4が破断する程度の強度にするとともに、上記シール材2の表面には2つの部材を横断する導電性を有する導通部5を設けた。



**【特許請求の範囲】**

【請求項1】 パッケージ等を構成する2つの開閉部材が開かないように封印するとともに以下の要件を備えたことを特徴とする封印用シール。

(イ) シール材の裏面には接着剤層を設け、該接着剤層の接着力はシール材を剥離する際に、該シール材が破断する程度の強度であること

(ロ) 上記シール材の表面には上記2つの開閉部材を横断する導通部が設けられ、該導通部は導電性を有していること

【請求項2】 前記シール材の表面には前記2つの開閉部材を横断する複数の第2の導通部が設けられ、該第2の導通部の少なくとも1つは前記導通部に導通している請求項1記載の封印用シール。

【請求項3】 前記シール材の表面には前記導通部に導通しない第3の導通部が設けられている請求項1記載の封印用シール。

【請求項4】 前記シール材の表面は前記導通部と同色である請求項1、2又は3記載の封印用シール。

**【発明の詳細な説明】****【0001】**

【発明の属する技術分野】本発明は、封印が破かれたか否かを電氣的に認識するための封印用シールに関する。

**【0002】**

【従来の技術】従来、パーソナルコンピュータ用のアプリケーションソフトが記憶されたFDやCD-ROMは封筒状のパッケージに収容され、不正使用を防止するためにパッケージの蓋はソフトを購入した人しか開封できないように封印されているのが一般的である。この封印用シールは一旦封印を破った時には破ったことが歴然と判るようにさまざまな工夫がされている。

**【0003】**

【発明が解決しようとする課題】しかしながら、上述の封印用シールはあくまで目視チェックに対応したもので、機械によるチェックを対象にしたものではなく、目視チェックで封印を破ったかどうかを確認することはできるが、機械で封印が破られたかどうかの判断はできなかった。

【0004】本発明は上記問題点を解消し、低コストにもかかわらず、電氣的に封印が破られたか否かを認識することができ、確実に不正を防止することができる封印用シールを提供することをその課題とする。

**【0005】**

【課題を解決するための手段】前記課題を解決するため、本発明に係る封印用シールは、パッケージ等を構成する2つの開閉部材が開かないように封印するとともに以下の要件を備えたことを特徴とする封印用シール。

(イ) シール材の裏面には接着剤層を設け、該接着剤層の接着力はシール材を剥離する際に、該シール材が破断する程度の強度であること

(ロ) 上記シール材の表面には上記2つの開閉部材を横断する導通部が設けられ、該導通部は導電性を有していること

なお、上記シール材の表面には上記2つの開閉部材を横断する複数の第2の導通部が設けられ、該第2の導通部の少なくとも1つは上記導通部に導通していてもよい。

【0006】また、上記シール材の表面には上記導通部に導通しない第3の導通部が設けられていてもかまわない。

【0007】さらに、上記シール材の表面は上記導通部と同色であることが好ましい。

**【0008】**

【発明の実施の形態】図1は本発明に係る封印用シールの平面図及び断面図を示し、この封印用シール1は閉じたパッケージ等の2つの開閉部材が勝手に開けられないように封印するものであって、紙等の破れやすい材質からなる略長方形のシール材2の裏面側に接着剤層3が形成され、剥離紙4の上に貼着されている。この接着剤層3の接着力はパッケージに貼着したシール材2を剥離しようとした時、剥れる前にシール材2が破れる程度の強度に設定されている。

【0009】そして、シール材2の表面の周縁近傍には一端側2aから他端側2bを経由して再び一端側2aに戻り、パッケージ10を封印した時には上部材10aと下部材10bとの2部材を横断するように略U字状の導通部5が設けられている。この導通部5は導電性を有するカーボン印刷等による導通印刷で形成され、導通部5の両端部は電気接点が接触しやすいように面積が広く形成され、一端はコモン端子5a、他端は通電検出端子5bを構成し、コモン端子5aと通電検出端子5bとの間に導通があれば封印用シール1が破れていないと判断できるように構成されている。

【0010】次に、上記構成の封印用シールをパッケージに貼着した場合を説明する。図2はパッケージ10の一例を示し、このパッケージ10は中に入れる商品12が外側から視認できる透明な合成樹脂性の2つの開閉する上部材10aと下部材10bとからなるブリスターパッケージで構成され、中央から折り曲げると上部材10aと下部材10bとの縁部に形成された鍔部11が重なるように形成されたもので、封印用シール1を剥離紙4から剥した後に真ん中から折り曲げ、重なった鍔部11の所定の位置を上下から挟むように封印すればよい。

【0011】上述のようにパッケージ10を封印した封印用シール1は、例えば、図2に示すような読み取り装置Aでチェックすればよい。この読み取り装置Aはシール材2の一端側2aに形成された導通部5の端子5a、5bに対応する位置に、読み取り端子a1、a2が設けられた読み取り部15が配置され、支持部16にパッケージ10を支持させた状態で、端子5aに読み取り端子a1が、端子5bに読み取り端子a2がそれぞれ接触す

るように構成され、コモン端子5aと通電検出端子5bとの間に電流が流れるかどうかを電流検出回路17でチェックすればよい。

【0012】両端子5a、5b間に導通があれば封印用シール1が破られていないと判断し、導通がなければ導通部5がコモン端子5aと通電検出端子5bとの間で切断されている、つまり封印用シール1が破られと判断することができ、パッケージ10の中身が入れ替えられている等の不正がなされたと判断することができる。

【0013】また、封印用シール1は接着剤層3の接着力が強く、且つシール材2には破れやすい紙を使用しているため、パッケージ10を開けようとした時、封印用シール1を剥そうとすると簡単にシール材2が破れてしまい、パッケージ10を開けた時には封印用シール1が確実に破れ、封印用シール1を傷つけることなくパッケージ10の中身を入れ替えたりする不正を防止することができる。

【0014】さらに、導通部5はシール材2の周縁に沿って形成されているのでシール材2が完全に破断しなくてもシール材2の一部が破損するので導通部5の一部が破断して導通を遮断させることができる。

【0015】次に、パッケージの開封の有無をチェックするとともに情報を持たせた封印用シールについて説明する。

【0016】この封印用シール21は図3(a)(b)に示すように、導通部5の他に3つの第2の導通部6、7、8が印刷されている。この第2の導通部6、7、8はシール材2の一端側に位置する部分の端部6a、7a、8aは電気接点に接触しやすいように面積が広く形成され、他端側の端部6b、7b、8bは2つの開閉部材10a、10bを横断して導通部5の近傍に位置し、一部の第2の導通部8は導通部5に接続されている。この第2の導通部6、7、8はデータ部を構成し、導通部5のコモン端子5aとの間の導通の有無による組み合わせから最大8種類の封印用シールを作ることができる。

【0017】このように導通部5に加えて第2の導通部6、7、8を備えた封印用シール21を読み取るためには、読み取り装置にも5つ端子5a、5b、6a、7a、8aに対応する位置に電気接点を設けた読み取り装置を用意すればよい。なお、本発明では第2の導通部を3つにしたが、数を増やすことによってデータを有する封印用シールの種類を増やすことができる。但し、シール材の大きさや貼り付け位置の精度からデータの量(シールの種類)には制限がある。

【0018】上述の封印用シールによれば、パッケージ内の商品やデータと封印用シールとを対応させれば、商品やデータの確認を行うことができる。例えば、パッケージ内に入れた加工前の商品を販売する販売機と、販売された商品を加工する加工装置とがセットで配置され、販売機に所定の料金を投入して払い出されたパッケージ

入りの商品をパッケージを開封することなく加工装置にセットして加工装置で商品を加工するような場合、加工装置に読み取り装置を備え、パッケージが開けられていないかどうか判断するとともに商品の材質等の情報をシールから読み取って商品に適合した仕様で加工をすることができる。

【0019】次に、一旦切断したシールを不正使用から防御する封印用シールについて説明する。この封印用シール31は図4に示すように、シール材2の表面の一端側に他の導通部5、6、7、8とは独立して第3の導通部9を印刷形成したもので、このシール31を読み取る読み取り装置では第3の導通部9とコモン端子5aとの間に導通があるかないか判断すればよい。正常な状態であれば第3の導通部9とコモン端子5aとの間に導通はないが、導通がある場合はシート上にアルミ箔等の導電性を有するシートが重合されていると判断することができる。不正を行おうとしていることが予測することができる。

【0020】更に、図5に示すように、シート材2を各導通部5、6、7、8と同色にするか、各導通部5、6、7、8をシート材2と同色で印刷するようにしてもかまわない。この封印用シール41によれば、目視では導通部の形状を判読することができないので、データを改竄したり切断部を接続する等の不正使用を確実に防止することができる。

【0021】

【発明の効果】請求項1の発明によれば、封印用シールを剥そうとすると、接着剤層の接着力が強いので必然的にシール材が破れる。シール材が破れるとシール材の表面に設けられた導通部の一部が切断されるので導通部の両端間の導通を調べることで、目視チェックによらない電氣的なチェックでもシール材が破れているかどうかを判断することができる。しかも、封印用シールの製造コストは低く抑えることができ費用対効果は抜群に向上する。

【0022】請求項2の発明によれば、封印用シールの破れをチェックできるとともに封印用シールに意味を持たせることができ、低コストで単に封印する機能から多機能の封印用シールにすることができる。

【0023】請求項3の発明によれば、不正使用を防止することができる。

【0024】請求項4の発明によれば、目視では導通部の形状を判読することができないので、不正使用を確実に防止することができる。

【図面の簡単な説明】

【図1】本発明の封印用シールの平面図及び断面図

【図2】上記封印用シールの使用状態を説明する斜視図

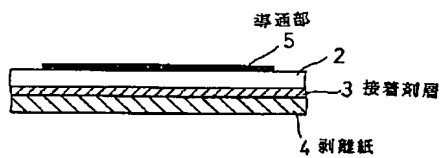
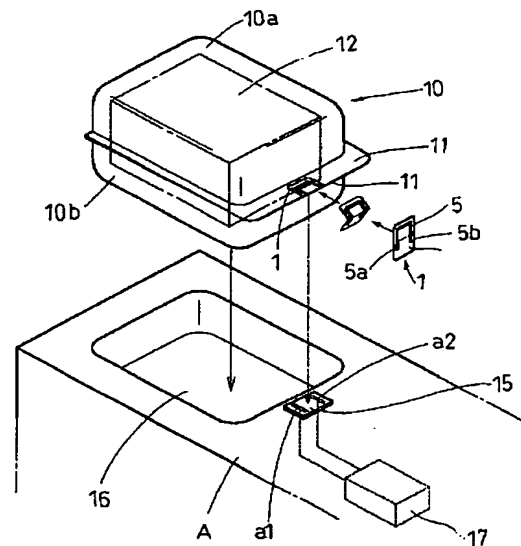
【図3】(a)(b)は封印用シールの他の例を示す平面図

【図4】封印用シールの更に他の例を示す平面図

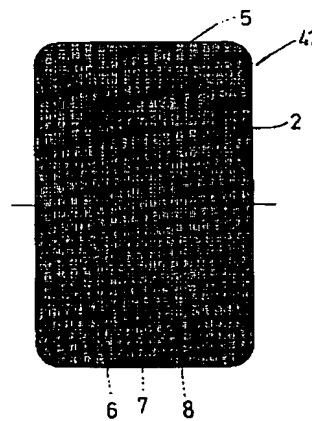
【符号の説明】

- 4 剥離紙  
5 導通部  
6、7、8 第2の導通部  
9 第3の導通部

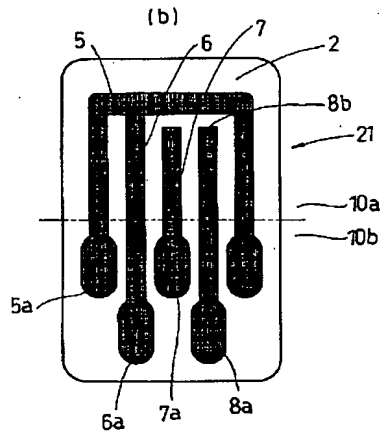
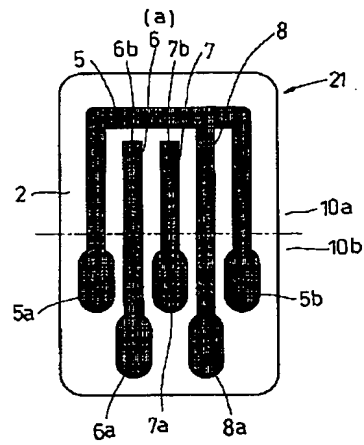
【図2】



【図5】



【図3】



JAPANESE

[JP,10-301495,A]

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CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS DESCRIPTION OF DRAWINGS DRAWINGS

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[Translation done.]



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CLAIMS

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[Claim(s)]

[Claim 1] The seal for a seal characterized by having the following requirements while two closing motion members which constitute a package etc. sealed so that there might be nothing in open.

(b) prepare an adhesives layer in the rear face of a sealant, the flow section which crosses the two above-mentioned closing motion members is prepared in the front face of the being [ it / the reinforcement which is extent which this sealant fractures ] (b) [ in case the adhesive strength of this adhesives layer exfoliates a sealant ] above-mentioned sealant, and this flow section has conductivity -- [claim 2] two or more 2nd flow sections which cross said two closing motion members prepare in the front face of said sealant -- having -- this -- the seal for a seal according to claim 1 which has flowed through at least one of the 2nd flow section in said flow section.

[Claim 3] The seal for a seal according to claim 1 with which the 3rd flow section through which it does not flow in said flow section is prepared in the front face of said sealant.

[Claim 4] The front face of said sealant is a seal for a seal according to claim 1, 2, or 3 which is said flow section and same color.

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[Translation done.]

JAPANESE

[JP, 10-301495, A]

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CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS DESCRIPTION OF DRAWINGS DRAWINGS

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 DETAILED DESCRIPTION
 

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates [ whether the seal was torn and or not ] to the seal for a seal for recognizing electrically.

[0002]

[Description of the Prior Art] In order to hold FD and CD-ROM the application software for personal computers was remembered to be in an envelope-like package and to prevent an unauthorized use conventionally, as for the lid of a package, it is common to be sealed so that only the person who purchased software can open. When this seal for a seal once tears a seal, various devices are carried out so that it may turn out clearly that it broke.

[0003]

[Problem(s) to be Solved by the Invention] However, although the above-mentioned seal for a seal is a thing corresponding to a sight check to the last, it is not a thing for the check by the machine and it could check whether the seal had been torn by the sight check, decision whether the seal was torn by machine was not completed.

[0004] This invention can cancel the above-mentioned trouble, and it can recognize whether the seal was electrically torn in spite of low cost, and let it be the technical problem to offer the seal for a seal which can prevent injustice certainly.

[0005]

[Means for Solving the Problem] For the seal for a seal applied to this invention in order to solve said technical problem, two closing motion members which constitute a package etc. are [ open or ] the seals for a seal with which it is characterized by having the following requirements while sealing so that there might be nothing.

(b) In case an adhesives layer is prepared in the rear face of a sealant and the adhesive strength of this adhesives layer exfoliates a sealant The flow section which crosses the two above-mentioned closing motion members is prepared in the front face of the being [ it / the reinforcement which is extent which this sealant fractures ] (b) above-mentioned sealant. the flow section of \*\* two or more 2nd which crosses the two above-mentioned closing motion members in the front face of the above-mentioned sealant which is having conductivity prepares this flow section -- having -- this -- you may flow through at least one of the 2nd flow section in the above-mentioned flow section.

[0006] Moreover, the 3rd flow section through which it does not flow in the above-mentioned flow section may be prepared in the front face of the above-mentioned sealant.

[0007] Furthermore, as for the front face of the above-mentioned sealant, it is desirable that they are the above-mentioned flow section and the same color.

[0008]

[Embodiment of the Invention] Drawing 1 shows the top view and sectional view of the seal for a seal

concerning this invention, freely, two closing motion members, such as a closed package, seal this seal 1 for a seal so that there may be no open eclipse, the adhesives layer 3 is formed in the rear-face side of the sealant 2 of the abbreviation rectangle which consists of construction material which is [ paper ] easy to be torn, and it is stuck on the releasing paper 4. When it is going to exfoliate the sealant 2 stuck on the package, the adhesive strength of this adhesives layer 3 is set as the reinforcement which is extent by which a sealant 2 is beaten, before it separates.

[0009] And when return and a package 10 are again sealed in end side 2a via other end side 2b from end side 2a near the periphery of the front face of a sealant 2, the flow section 5 of the letter of the abbreviation for U characters is formed so that two members of up material 10a and lower material 10b may be crossed. It is formed by flow printing by carbon printing which has conductivity, as for the both ends of the flow section 5, area is widely formed so that electric contact may tend to contact, an end constitutes common terminal 5a, the other end constitutes energization detection terminal 5b, and if a flow is between common terminal 5a and energization detection terminal 5b, this flow section 5 is constituted so that it may judge not having been torn in the seal 1 for a seal.

[0010] Next, the case where the seal for a seal of the above-mentioned configuration is stuck on a package is explained. Drawing 2 shows an example of a package 10 and this package 10 consists of blister packages with which the goods 12 put into inside consist of up material 10a opened and closed and two lower material 10b of transparent synthetic-resin nature which can be checked by looking from an outside. What is necessary is just to seal so that it may bend from middle after being formed so that the flange 11 formed in the edge of up material 10a and lower material 10b might lap and removing the seal 1 for a seal from a releasing paper 4, if it bends from a center, and the position of the overlapping flange 11 may be inserted from the upper and lower sides.

[0011] What is necessary is just to check the seal 1 for a seal which sealed the package 10 as mentioned above by reader A as shown in drawing 2. This reader A is in the condition that the reading terminals a1 and a2 were formed in the location corresponding to the terminals 5a and 5b of the flow section 5 formed in end side 2a of a sealant 2 and of reading, and the section 15 being arranged and having made the supporter 16 supporting a package 10. What is necessary is to be constituted so that it may read to terminal 5a, a terminal a1 may read to terminal 5b and a terminal a2 may contact, respectively, and just to confirm whether a current flows between common terminal 5a and energization detection terminal 5b in the current detector 17.

[0012] If a flow is between ends child 5a and 5b, it will judge that the seal 1 for a seal is not torn, if there is no flow, the flow section 5 is cut between common terminal 5a and energization detection terminal 5b, i.e., the seal 1 for a seal can judge it as \*\*\*\*\*, and it can be judged that injustice -- the contents of the package 10 are replaced -- was made.

[0013] Moreover, the seal 1 for a seal has the strong adhesive strength of the adhesives layer 3, and since it is using the paper which is easy to be torn for a sealant 2, it can prevent the injustice which is going to open a package 10, or replaces the contents of the package 10, without tearing a sealant 2 simply, tearing the seal 1 for a seal certainly in a package 10 at the time of an open beam, and damaging the seal 1 for a seal if it is going to remove the seal 1 for a seal.

[0014] Furthermore, since a part of sealant 2 is damaged even if a sealant 2 does not fracture thoroughly, since it is formed along the periphery of a sealant 2, a part of flow section 5 can fracture the flow section 5, and it can make a flow intercept.

[0015] Next, while checking the existence of opening of a package, the seal for a seal which gave information is explained.

[0016] As this seal 21 for a seal is shown in drawing 3 (a) and (b), the 2nd three flow section 6, 7, and 8 other than the flow section 5 is printed. Edge 6a of the part to which this 2nd flow section 6, 7, and 8 is located in the end side of a sealant 2, The edges 6b, 7b, and 8b by the side of the other end cross two closing motion

members 10a and 10b by being formed widely, area is located near the flow section 5, and a part of 2nd flow section 8 is connected to the flow section 5 so that 7a and 8a may tend to contact electric contact. This 2nd flow section 6, 7, and 8 can constitute data division, and can make a maximum of eight kinds of seals for a seal from the combination by the existence of the flow between common terminal 5a of the flow section 5.

[0017] Thus, what is necessary is just to prepare also for a reader the reader which prepared electric contact in the location corresponding to the five terminals 5a, 5b, 6a, 7a, and 8a, in order to read the seal 21 for a seal which was equipped with the 2nd flow section 6, 7, and 8 in addition to the flow section 5. In addition, although the 2nd flow section was set to three in this invention, the class of seal for a seal which has data can be increased by increasing a number. However, the amount (class of seal) of data has a limit from the magnitude of a sealant, or the precision of an attachment location.

[0018] If goods, the data, and the seal for a seal in a package are made to correspond according to the above-mentioned seal for a seal, the check of goods or data can be performed. For example, the vending machine which sells the goods before processing put in in the package, and the processing equipment into which the sold goods are processed are arranged by the set. In the case so that the goods of entering [ which injected and paid out the predetermined tariff to the vending machine ] a package may be set in processing equipment, without opening a package and goods may be processed with processing equipment Processing equipment is equipped with a reader, and while judging whether the package has opened or not, it is processible by the specification which read information, such as construction material of goods, in the seal, and suited goods.

[0019] Next, the seal for a seal which defends the once cut seal from an unauthorized use is explained. What is necessary is just to judge whether this seal 31 for a seal has a flow between the 3rd flow section 9 and common terminal 5a in the reader which is that to which other flow sections 5, 6, 7, and 8 carried out printing formation of the 3rd flow section 9 independently at the end side of the front face of a sealant 2, and reads this seal 31, or as shown in drawing 4 , there is not. [ any ] If it is in a normal condition, there will be no flow between the 3rd flow section 9 and common terminal 5a, but when there is a flow, it can predict that it can judge that the polymerization of the sheet which has the conductivity of aluminum foil etc. is carried out, and is going to perform injustice on a sheet.

[0020] Furthermore, a web material 2 is made into each flow sections 5, 6, 7, and 8 and the same color, or you may make it print each flow sections 5, 6, 7, and 8 in a web material 2 and the same color, as shown in drawing 5 . According to this seal 41 for a seal, since the configuration of the flow section cannot be deciphered visually, data can be altered or the unauthorized use of connecting the cutting section can be prevented certainly.

[0021]

[Effect of the Invention] According to invention of claim 1, since the adhesive strength of an adhesives layer is strong when it is going to remove the seal for a seal, a sealant is torn inevitably. Since a part of flow section prepared on the surface of the sealant will be cut if a sealant is torn, by investigating the flow between the ends of the flow section, it can judge whether the sealant has also lost the electric check by the sight check. And the manufacturing cost of the seal for a seal can be pressed down low, and cost effectiveness improves preeminently.

[0022] According to invention of claim 2, while being able to check the tear of the seal for a seal, semantics can be given to the seal for a seal, and it can be made the multifunctional seal for a seal from the function only sealed by low cost.

[0023] According to invention of claim 3, an unauthorized use can be prevented.

[0024] According to invention of claim 4, since the configuration of the flow section cannot be deciphered visually, an unauthorized use can be prevented certainly.

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[Translation done.]

JAPANESE

[JP,10-301495,A]

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CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS DESCRIPTION OF DRAWINGS DRAWINGS

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[Translation done.]

\* NOTICES \*

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] The top view and sectional view of the seal for a seal of this invention

[Drawing 2] The perspective view explaining the busy condition of the above-mentioned seal for a seal

[Drawing 3] (a) and (b) are the top view showing other examples of the seal for a seal.

[Drawing 4] The top view showing the example of further others of the seal for a seal

[Drawing 5] The top view showing another example of the seal for a seal

[Description of Notations]

1 Seal for Seal

2 Sealant

3 Adhesives Layer

4 Releasing Paper

5 Flow Section

6, 7, 8 The 2nd flow section

9 3rd Flow Section

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[Translation done.]